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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/506,540	09/03/2004	Yoshitada Oshida	520.44257X00	1191	
20457 7590 O9003/2008 ANTONELL, TERRY, STOUTA KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-3873			EXAM	EXAMINER	
			RUTLEDGE, DELLA J		
			ART UNIT	PAPER NUMBER	
			2851		
			MAIL DATE	DELIVERY MODE	
			09/03/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/506,540 OSHIDA ET AL. Office Action Summary Examiner Art Unit Della J. Rutledge 2851 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on May 7, 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-23 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 05/08.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

New grounds of Rejection

New grounds of rejection on the pending claims appear below.

Claim Rejections - 35 USC § 102

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1, 3, 7 10, 12, 15, 17, 22, and 23 rejected under 35 U.S.C. 102(b) as being anticipated by Kudo (JP 2001-085308).

In regard to claims 1, 10, 15:The reference has a method of illumination, comprising: emitting light from each of a plurality of light sources, the fiber bundle 19 has plural light sources; spatially decomposing the light emitted by means of the integrator 110 to form a multitude of pseudo-secondary light sources; and overlapping the light emitted by means of the condenser lens 116.

In regard to claims 3, 12, 17: The light sources are laser light sources.

In regard to claims 7-9, 22: the apparatus controls the energy of the light sources; the light ray emitted enters the integrator 110; the integrator provides the homogeneity and uniformity of the light rays.

In regard to claim 23: the detector 115 measures the light intensity

 Claims 1, 2, 4, 8 – 11, 13, 15, 16 and 18 are ejected under 35 U.S.C. 102(b) as being anticipated by Abe et al. (JP 05-045605). Application/Control Number: 10/506,540

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In regard to claims 1, 10, 15:The reference has a method of illumination, comprising: emitting light from each of a plurality of light sources 1; spatially decomposing the light emitted by means of the integrator 4 to form a multitude of pseudo-secondary light sources; and overlapping the light emitted by means of the condenser lens 5.

In regard to claims 8, 9: the apparatus controls the energy of the light sources; the light ray emitted enters the integrator 4; the integrator provides the homogeneity and uniformity of the light rays.

In regard to claim 11, 16: the light emitting region is analogous to the shape of the region illuminated

In regard to claims 13, 18: the integrator appears to meet the ratios claimed

Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 2, 4 6, 11, 13, 14, 16, 18 21are rejected under 35 U.S.C. 103(a) as being unpatentable over Kodo (JP 2001-085308).
- In regard to the following claims, see arguments below and the text of the reference at paragraphs 0012, 0015, 0029, 0053-0059 and 0069.

In regard Claim 2, 11, 16: to the arrangement of the sources analogous to a shape of the region to be illuminated, such an arrangement is known and reduces the need to use other components to shape the illumination. Application/Control Number: 10/506,540

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In regard to Claim 4, 13, 18: the integrator is used to control the uniformity of the illumination and one of ordinary skill in the art would know how to select the ratios of the integrator components to achieve that goal.

In regard to Claim 5, 14, 19: one of ordinary skill in the art would know that additional components may be needed to further improve the uniformity of the illumination. In regard to claims 6, 20, 21: controlling the divergence of the angle controls the distribution of the illumination, and one of ordinary skill in the art would be motivated to control or adjust the divergence angle.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kurtz et al. reference relates to printing systems and teaches that a semiconductor laser array may be used as a light source.

Response data

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Della J. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be reached on Mon - Thurs, 6:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on (571) 272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Della J. Rutledge/ Primary Examiner Art Unit 2851

dr 9/02/08